

# ADVA® FLOW 442 (BV/FM)

Plasticizer for concrete acc. to EN 934-2:T2

Superplasticizer for concrete acc. to EN 934-2:T3.1/3.2

## Product Description

ADVA FLOW 442 (BV/FM) is a highefficiency superplasticising admixture designed to impart a combination of both high initial workability, and extended slump retention, to concrete.

ADVA FLOW 442 (BV/FM) is ideally suited for ready-mix concrete, or precast applications requiring extended workability.

## Compatibility

### With Cements:

ADVA FLOW 442 (BV/FM) can be used with most types of normal cements. For use with special cements we recommend you to contact GCP Applied Technologies.

### With Other Admixtures:

ADVA FLOW 442 (BV/FM) should not be premixed under any circumstances with other admixtures. The performance of the product will be affected by the presence of other chemicals and we recommend that GCP be consulted in such circumstances.

We recommend that all admixtures be added separately into the mix.

## Method Of Use

ADVA FLOW 442 (BV/FM) is supplied ready for use. When adding ADVA FLOW 442 (BV/FM) in the factory, we recommend the dosage together with the gauging water or much better as the latest component. The mixing time after dosage of the agent depends on the mixing energy, whereas a minimum mixing time of 60 seconds must be followed.

Addition of any other chemical admixture should be undertaken separately.

## Addition Rates

### Recommended Range:

**200 ml–2600 ml per 100 kg cement**

**0.2%–2.60% (v/w) by wt. of cement**

As with most products of this type the magnitude of the effect obtained with ADVA FLOW 442 (BV/FM), is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

It is necessary therefore to assess performance under site conditions using actual materials to determine optimum performance and dosage.

For advice and assistance with trials we recommend that you consult GCP.

## Health and Safety

For further information we recommend that you consult the SDS (Safety Data Sheet) or contact GCP.

## Packaging

ADVA FLOW 442 (BV/FM) is supplied in non-returnable drums or totes. Bulk deliveries can also be arranged upon request.

## Storage

ADVA FLOW 442 (BV/FM) should preferably be stored away from extremes of cold or heat. The product should be kept in shaded storage at all times.

### Storage Life in Manufacturer's Drums:

12 months from the date of manufacture.

### Storage Life in Bulk Storage:

12 months from the date of delivery.

## Restrictions

ADVA FLOW 442 (BV/FM) does not meet the requirements of ZTV-ING, and **IS NOT TO BE USED WITHIN GERMANY.**

## Technical Data

ADVA FLOW 442 (BV/FM)	
Color	brown
Physical form	liquid
Density (g/cm <sup>3</sup> )	1.07 (+/-) 0.01
pH-Value	4.5 (+/-) 1.0
Chloride content (m.-%)	< 0,1
Alkali content (m.-%)	< 1,0

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